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(54) **Laser output detector**

(57) A laser output detector is provided which comprises: a convertor unit having a light sampling port to be located adjacent a projecting portion of a laser beam projector for sampling a fraction of a convergent portion of a laser beam projected from the laser beam projector or a fraction of a non-convergent portion of the laser

beam outside the convergent portion of the laser beam, and adapted to convert the sampled laser beam fraction into an electrical signal; and a detection circuit for computing the energy amount of the projected laser beam on the basis of the electrical signal outputted from the convertor unit.

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# EUROPEAN SEARCH REPORT

Application Number  
EP 99 30 3012

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	DE 41 11 844 C (WEIDMÜLLER) 13 August 1992 (1992-08-13) * column 4, line 30 - line 54; figures *	1,5,8	601J1/42
A	PATENT ABSTRACTS OF JAPAN vol. 012, no. 445 (M-767), 22 November 1988 (1988-11-22) -& JP 63 177990 A (MITSUBISHI ELECTRIC CORP), 22 July 1988 (1988-07-22) * abstract *	1,2,6,8	
A	WO 87 01447 A (FRAUNHOFER GES FORSCHUNG) 12 March 1987 (1987-03-12) * abstract; figures *	1,3,7	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)  601J
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>28 April 2000</b>	Examiner <b>Ramboer, P</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 30 3012

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The members are as contained in the European Patent Office EDP file on  
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28-04-2000

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